

Subject: Zodiac XDC73207G696 Survey

Dates: 6 May 2014

Attachments: None

1. **Purpose:**

This survey was conducted to determine the structural, electrical and mechanical condition of Zodiac Hull R107.

2. **Background:**

The subject craft is constructed of fiberglass and is powered by two 150 horsepower (HP) Evinrude E-TEC outboard engines. At the time of this survey, the port outboard engine (SER: 5362920) had recorded approximately 564 hours of operation and the starboard outboard engine (SER: 05290276) had recorded approximately 570 hours of operation according to the hour meters on the console.

3. **Brief:**

The subject craft was surveyed on its trailer at Naval Special Warfare Group 3 in Pearl City, HI. Visual inspections were performed on the craft. All compartments were open for inspection except the fuel tank. Physical access below main deck does not exist. Only problems that were identified are noted herein; structure and equipment that appeared undamaged are not mentioned. Engines were not operated at the time of this survey.

3.1 **Bow Compartment:**

Structural:

- a. Compartment top non-skid missing – (CL)
- b. Compartment top hatch cracked on interior – (CL)
- c. Compartment vent hatch broken – (CL)
- d. Rubber securing latch missing – (S)

3.2 **Forward Deck:**

Structural:

- a. Forward lifting eye hardware broken (1 place) – (P)
- b. Forward deck soft patch sealant weathered/deteriorated – (P/CL/S)
- c. Corrosion at base of forward tow post and gasket deteriorated in way of stainless steel hardware – (CL)
- d. Forward round deck hatch unable to operate, in way of console footing – (CL)
- e. Chipped/missing paint on forward tow post

3.3 **Inside Console:**

Electrical:

- a. Trim/tilt controls disconnected; not utilized – (P)
- b. Battery switches (2ea) terminals corroded – (P)
- c. Battery switch not utilized – (P)
- d. Search light receptacle disconnected; wires cut at receptacle – (P)
- e. Positive and negative terminal blocks terminals corroded – (CL)
- f. White wire cut at bilge switch – (CL)
- g. Charging relay not utilized – (S)
- h. Miscellaneous cables not secured properly throughout
- i. Miscellaneous cables dead ended in cableways throughout

3.4 Console:

Structural:

- a. Missing/deteriorated sealant at deck connection – (P/CL/S)
- b. Blanking plate for compass rusted – (CL)
- c. Leaning post cushion cover torn; foam torn – (CL)
- d. Aft console vent louver cracked – (CL)
- e. Chipped/missing paint throughout console and leaning post
- f. Approximately twenty (20) screw/bolt holes in the console throughout

Mechanical:

- a. Excessive play in throttle control – (P)

Electrical:

- a. Starboard engine tachometer not secured properly – (P)
- b. Search light receptacle dust cover missing – (P)
- c. Auxiliary fuel gauge inoperative – (P)
- d. Port and starboard trim/tilt gauges inoperative – (P)
- e. Compass missing – (CL)
- f. 12V panel toggle switch boots (6ea) missing – (CL)
- g. 12V panel reset push button boots (3ea) missing – (CL)
- h. 12V panel not labeled properly – (CL)
- i. 12V panel missing mounting hardware (2 places) – (CL)
- j. Stuffing tube not packed properly on top of console at VHF radio – (S)
- k. Three (3) cable penetrations missing chaffing material – (S)
- l. Aft deck light missing – (S)
- m. Unidentified black box not utilized – (S)

3.5 Cockpit:

Structural:

- a. Console soft patch sealant weathered – (P/S/CL)

3.6 Hardtop:

Structural:

- a. Collapsible mast bracket cracked/bent – (P)
- b. Hardtop frame to console spacers deteriorated/cracked (12 places) – (P/S)
- c. RAM light mast foundation hardware (1ea) rusted – (CL)
- d. Approximately fifteen (15) mounting fasteners rusted throughout
- e. Canvas top loose; torn and worn in localized areas
- f. Chipped/missing paint throughout

Electrical:

- a. Navigation light inoperative – (P)
- b. Five (5) cable penetrations missing chaffing material inside electronics box – (P/S)
- c. RAM lights not spliced properly – (CL)
- d. Bottom red RAM light lens broken – (CL)
- e. Middle white RAM light lens missing – (CL)
- f. Stuffing tube not packed properly – (S)
- g. VHF microphone clip mount rusted – (S)

3.7 Aft Deck:

Structural:

- a. Sponson retaining flat bar strap missing hardware (1 place) and rusted (3 places) – (P)
- b. Aft deck soft patch hardware broken (1 place) – (S)
- c. Aft deck soft patch sealant missing/deteriorated throughout

3.8 Transom:

Structural:

- a. Perko vent covers corroded on interior – (P/S)
- b. Life ring mount loose; corroded – (CL)
- c. Aft tow post missing/chipped paint

Electrical:

- a. Unidentified cable dead-ended – (S)

3.9 Transom Compartment/Aft Bilge:

Structural:

- a. Compartment hatch white vice black color – (CL)
- b. Compartment hatch broken fastener – (CL)
- c. Manual bilge pump cover missing – (CL)
- d. Forward access hatch broken – (CL)
- e. Miscellaneous holes 1/8" diameter in forward face (2 places) – (S)
- f. Hole 1/4" diameter in transom top near engine guard connection – (S)
- g. Compartment forward face missing hardware (4 places); sealant deteriorated

Mechanical:

- a. Fuel tank selector valves inoperable/seized – (P/S)
- b. RACOR filter housings and fittings corroded – (P/S)
- c. Fuel lines and oil lines single hose clamps installed throughout – (CL)
- d. Miscellaneous hoses not secured properly throughout
- e. Manual bilge pump missing hose clamps

Electrical:

- a. Auto float switch for bilge inoperative – (CL)
- b. Two (2) cables for radar not packed properly in stuffing tube – (S)
- c. Miscellaneous cables not secured properly throughout

3.10 Aft Arch:

Structural:

- a. Rusted hardware at folding joint (2 places) – (P/S)
- b. Grating torn/missing section – (CL)

Electrical:

- a. Two (2) cable penetrations missing chaffing material for radar cables – (CL)

3.11 Hull Exterior:

Structural:

- a. Gouges and scrapes in gel coat at bow – (P/S)
- b. Scrapes, scuffs and gouges in hull bottom throughout – (P/S)
- c. Minor chips/scrapes in gel coat on spray rails – (P/S)
- d. Cracked gel coat (extent unknown) at sponson guide track to transom connection – (P/S)
- e. Aluminum engine bracket missing/chipped paint on top and bottom surfaces; general pitting corrosion – (P/CL/S)
- f. Cracked and delaminated fiberglass at bow peak; prior repair and screws installed in damaged area – (CL)
- g. Bow stem to keel doubler gel coat eroded away and fiberglass exposed – (CL)

- h. Prior repair at keel doubler to bow stem connection – (CL)
- i. Damage/delamination of keel doubler at bow approximately 2' in length – (CL)
- j. Gel coat worn and fiberglass exposed at keel – (CL)
- k. Transom zinc deteriorated – (CL)
- l. Engine guard chipped/missing paint throughout
- m. Light marine growth throughout hull bottom

Electrical:

- a. Depth transducer cable not secured at transom – (CL)

3.12 Outboard Engines:

Structural:

- a. Marine growth on prop – (P)
- b. Engine lower unit zincs (2 places) deteriorated – (P/S)
- c. Engine mount zincs (2 places) deteriorated – (P/S)
- d. Engine lower unit skeg damaged/bent – (S)
- e. Engine lower unit leaking emulsified oily water from drain plug – (S)

Electrical:

- a. Positive lead at start solenoid corroded – (P)

3.13 Trailer (SER: 1ZEVABVH1AA003611):

Structural:

- a. Transverse forward beam rusted and one (1) loose fastener – (P)
- b. Bunk cover torn and wood bunk crushed – (P/S)
- c. Forward and aft axles heavily rusted and galvanized coating scaling/missing
- d. Minor rust at winch and bow hook rusted – (CL)
- e. Fender rusted – (S)
- f. Vehicle safety cables covers worn and cables rusted (2 places) – (P/S)
- g. Electrical wiring and brake line retaining clips rusted throughout (50 places)
- h. Brake lines rusted throughout
- i. Forward and aft transverse bunk support beams rusted; galvanized coating scaling and missing
- j. Fasteners and U-bolts rusted throughout
- k. Bunk support clips rusted (16 places) throughout

Mechanical:

- a. Torsional axles rusted (4 places) – (P/S)
- b. Brakes and rotors rusted (4 places) – (P/S)

- c. Wheel bearing contain emulsified oily water (4 places) – (P/S)

Electrical:

- a. Rear fender light missing – (P/S)